



Louisville and Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
[www.msdlouky.org](http://www.msdlouky.org)

June 17, 2013

Ms. Donna Seadler  
Remedial Project Manager  
Kentucky/Tennessee Section U.S.  
U.S. Environmental Protection Agency Region IV  
61 Forsyth Street  
Atlanta, GA 30303

**Re: Result of Air Quality Monitoring - FY 13, Fourth Quarter (FY13-4Q),  
Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on  
Consent, USEPA Docket No-91-32-C**

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lee's Lane Landfill Site. Section 4.2, Air Quality Monitoring, attached for your information and files is one photocopy each of the following items, prepared by URS Corporation, 1600 Perimeter Park Drive, Suite 100, Morrisville, North Carolina 27560 and received by MSD on June 14, 2013.

1. URS Corporation letters dated June 7, 2013, 2 pages.
2. Figure 1, Lees' Lane Landfill, Sampling Locations, 1 page.
3. Table 1, TO-15 Data Summary for Ambient Air Samples at the Lees' Lane Landfill, Sampling date: April 25, 2013, 1 page.
4. Table 2, On-Site Meteorological Data, Sampling date, April 25, 2013, 1 page.
5. Table 3, TO-15 Data Summary for Gas Monitoring Well Samples at the Lees' Lane Landfill, Sampling date: April 25, 2013, 1 page.



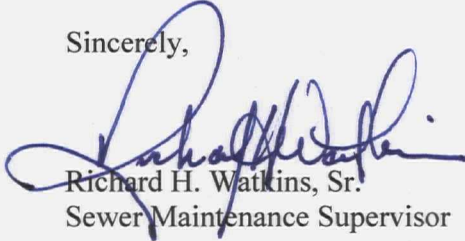
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Ms. Donna Seadler  
June 17, 2013  
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Please advise if you have any questions concerning the attached information.

Sincerely,

A handwritten signature in blue ink, appearing to read "Richard H. Watkins, Sr.", is written over the printed name and title.

Richard H. Watkins, Sr.  
Sewer Maintenance Supervisor

RHW/rw  
Lees-13-4Qtr

Enc.

cc: Kentucky National Resource Environment Protection Cabinet  
Mr. Daniel Phelps, Division of Waste Management  
Lee Lane File



41917229.00200

June 7, 2013

Mr. Rick Watkins  
Louisville Metropolitan Sewer District  
3050 Commerce Center Place  
Louisville, KY 40211

Dear Rick:

Enclosed is the summary analytical report for the ambient air and gas monitoring well samples collected at the Lee's Lane Landfill site on April 25, 2013 (Sampling Event 53). Seven ambient samples, along with (G1, G2, G3, G4, G5R, G5L, GMW-1, GMW-2, GMW-3) well samples and a Field Blank were taken.

A map of the site, labeled with the sample collection locations for your reference, is shown in Figure 1. Table 1 is a tabular summary of the ambient samples with the primary analytes required for submission to EPA. Benzene, methylene chloride, toluene, and xylenes were detected in small quantities in select ambient samples. Methane concentrations were consistent with historical data.

The sampling locations were chosen based on a combination of prevailing on-site meteorology and accessible sites in the adjacent residential neighborhood per the standard sampling protocol. The meteorological conditions were moderate throughout the sampling day; warm (60 °F), with moderate, variable winds. The information displayed in Table 2 was obtained from the Louisville International Airport (Standiford Field) National Weather Service Station. The ambient air samples were collected in Summa canisters positioned 3-5 feet above ground level, integrated over an approximate 7-hour collection period.

The methane analysis was performed by GC/FID using a separate analytical system from the TO-15 analysis employed at STL in Austin. The TO-15 analytical methodology using Gas Chromatography/Mass Spectrometry (GC/MS) was employed. Samples were handled with standard laboratory chain-of-custody procedures. Sample canisters and flow controllers were cleaned and blanked using method TO-12 for total non-methane hydrocarbons prior to field deployment. All of the samples were successfully collected and analyzed for methane and the TO-15 target analytes. Quality control parameters of precision (repeatability) and spiking of surrogate compounds meet internal URS and project-required specifications for all other analyses.

The reliability of this data set can be characterized as good, based on the repeatability (analytical precision), surrogate spike recoveries, blank levels and the relatively few number of unresolved interfering peaks in the sample chromatograms. The April, 2013 field blank canister reported no positive hits other than the surrogate recoveries, with the exception of methane and toluene. The reported results have not been blank corrected in attached tables per our standard project procedure.

URS Corporation  
1600 Perimeter Park Drive  
Morrisville, North Carolina 27560  
Telephone: 919.461.1100  
Fax: 919.461.1415



Mr. Rick Watkins

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June 6, 2013

Table 3 is a tabular summary of the gas well samples with the primary analytes required for submission to EPA. Prior to the field sample collection, Wells G-1, GMW-1, GMW-2 and GMW-3 were sampled with a GEM-200 analyzer to test for the presence of methane in the well. Methane was not detected in any of the wells or the vicinity of the wells above background.

URS appreciates the opportunity to assist your staff with this project. Please advise me at (919) 461-1242 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert F. Jongleux".

Robert F. Jongleux  
Project Manager

Enclosure

cc: Chris Davis, URS/LOU  
Project File/Task 53

TABLE 1

**TO-15 DATA SUMMARY FOR AMBIENT  
AIR SAMPLES AT THE LEE'S LANE LANDFILL  
SAMPLING DATE: 25 APRIL 2013**

Sample ID	Ambient Air Samples						
	A1	A2	U1	U2	R1	R2	R3
Canister ID	RA2300	UJ1008	HL0928	RA2116	RA2351	HL0789	5429
Dilution Factor	2.1625	2.9678	2.7539	2.138	2.1895	2.7781	2.8027
Location	ONSITE	ONSITE DUP.	LG&E	LEVEE	4423 WILSHIRE	PUTNAM LANE	PUTNAM END
Veriflow ID	A181861	A168513	A218997	FC023	A134120	A218796	A181856
Compound (ppbV)							
Benzene	0.109	0.118	0.107	0.109	0.118	0.104	0.0818
Methylene chloride	0.168	0.134	0.128	0.121	0.13	0.0867	0.143
Toluene	0.227	0.497	0.551	1.00	0.737	0.492	0.646
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND	0.0368	ND	0.1172	0.1003	0.0839	ND
Methane (ppmV)	3.99	4.37	4.19	3.88	3.86	3.96	4.09

ND = Non Detect < MDL and < Limit of Quantitation

**TABLE 2**  
**LOCAL METEOROLOGICAL DATA**  
**AMBIENT AIR SAMPLES**  
**SAMPLING DATE: 25 APRIL 2013**

Time	Barometric Pressure (in Hg)	Temperature (°F)	Dewpoint (°F)	Wind Direction (from)	Wind Speed (mph)	Observation
7:56 AM	30.32 in	37.9 °F	35.1 °F	Calm	Calm	Clear
8:56 AM	30.35 in	42.1 °F	37.0 °F	SW	4.6 mph	Clear
9:56 AM	30.34 in	48.9 °F	36.0 °F	SW	6.9 mph	Clear
10:56 AM	30.34 in	51.1 °F	34.0 °F	SW	9.2 mph	Clear
11:56 AM	30.34 in	55.0 °F	36.0 °F	SW	13.8 mph	Partly Cloudy
12:56 PM	30.33 in	57.0 °F	35.1 °F	West	11.5 mph	Partly Cloudy
1:56 PM	30.31 in	59.0 °F	36.0 °F	WSW	9.2 mph	Partly Cloudy
2:56 PM	30.31 in	62.1 °F	37.9 °F	West	18.4 mph	Mostly Cloudy
3:56 PM	30.29 in	63.0 °F	36.0 °F	WSW	16.1 mph	Mostly Cloudy
4:56 PM	30.29 in	63.0 °F	37.0 °F	West	16.1 mph	Mostly Cloudy
5:56 PM	30.29 in	60.1 °F	35.1 °F	WNW	11.5 mph	Mostly Cloudy

Source: National Weather Service, Louisville, Ky.

**TABLE 3**  
**TO-15 DATA SUMMARY FOR GAS MONITORING**  
**SAMPLING DATE: 25 APRIL 2013**

	Well Samples									BLANK #1
	G1	G2	G3	G4	G5-L	G5-R	GMW-1	GMW-2	GMW-3	
Canister ID	RA2029	RA2035	RA2028	HL0842	RA2115	RA2257	RA2165	HL0800	5434	RA2304
Dilution Factor	4.266	4.2076	4.1926	4.2228	4.2198	4.1374	4.1404	4.2798	4.2952	2.00
Orifice	RA2029	RA2034	RA2028	RA2031	RA2027	5412	HL029	FC023	RA2339	NA
Sampling Date	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013	4/25/2013
Compound (ppbV)										
Benzene	ND	ND	ND	0.0528	0.0476	0.0311	0.0713	0.0401	0.0449	ND
Methylene chloride	0.131	0.0146	ND	0.0383	ND	0.0419	0.037	0.0321	0.0902	ND
Toluene	0.693	0.177	0.152	0.120	0.140	0.180	0.155	0.259	0.587	0.0282
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	0.05	ND	ND	0.0136	0.00543	0.0147	ND	0.0116	0.00987	ND
Methane (ppmV)	1.27	1.47	1.65	2.24	1.71	2.38	1.54	1.86	2.31	0.548

ND = Non Detect < MDL and < Limit of Quantitation

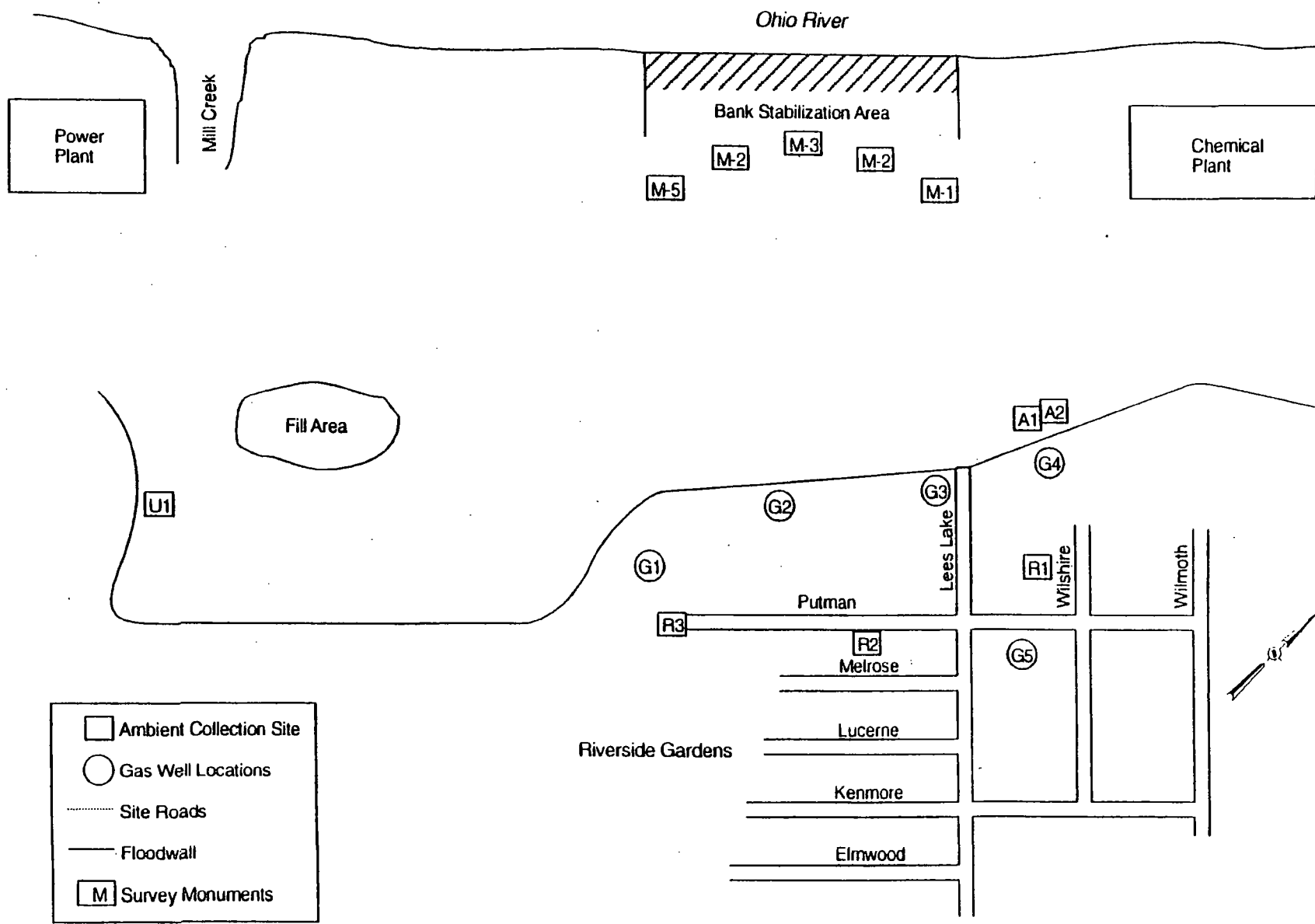


Figure 1. Lees Lane Landfill Sampling Locations